

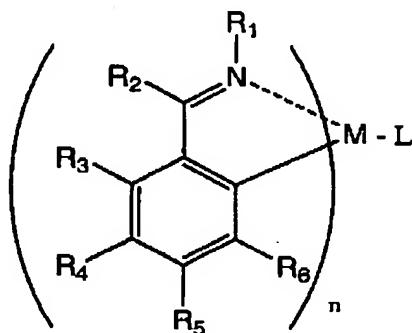
Docket No. 740756-2689  
 Application No. 10/736,679  
 Page 4 of 13

### AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (Currently amended) An organometallic complex represented by the following general formula 2[[:]],



(Formula 2)

~~where~~ wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group[[:]].

wherein  $R_2$  is ~~hydrogen~~, an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group[[:]].

wherein each of  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  may be is identical with each other or different[[:]] ~~from each other and are individually is~~ hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group[[:]].

wherein M is an element of Group 9 or an element of Group 10, and

wherein  $n$  [=] is 2 when the M is the element of Group 9 or  $n$  [=] is 1 when the M is the element of Group 10[[:]]. and

wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group}.

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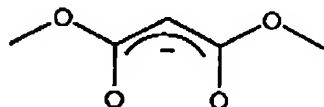
Docket No. 740756-2689  
Application No. 10/736,679  
Page 5 of 13

2. (Original) The organometallic complex according to claim 1, wherein the M is iridium or platinum.

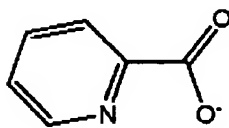
3. (Currently Amended) The organometallic complex according to claim 1 or claim 2, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9[.]:



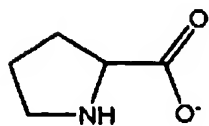
(Formula 3)



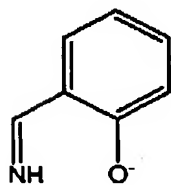
(Formula 4)



(Formula 5)



(Formula 6)

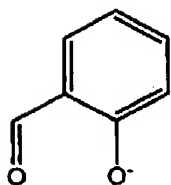


(Formula 7)

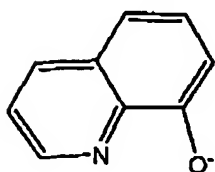
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BEST AVAILABLE COPY

Docket No. 740756-2689  
Application No. 10/736,679  
Page 6 of 13



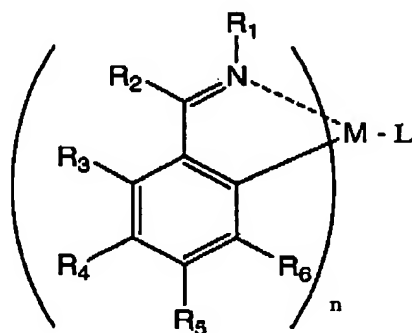
(Formula 8)



(Formula 9)

Claims 4-10 (Canceled)

11. (New) A light emitting device comprising:  
a first electrode over a substrate;  
a light emitting layer comprising an organometallic complex represented by the following general formula 2, over the first electrode;



(Formula 2)

a second electrode over the light emitting layer,  
wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,  
wherein  $R_2$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,  
wherein each of  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is identical with each other or different from each

W665217.1

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Docket No. 740756-2689  
Application No. 10/736,679  
Page 7 of 13

other, and is hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 9 or an element of Group 10,

wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element of Group 10, and

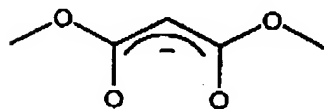
wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

12. (New) The light emitting device according to claim 11, wherein the M is iridium or platinum.

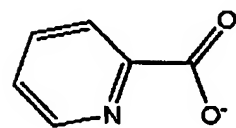
13. (New) The light emitting device according to claim 11, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:



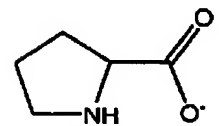
(Formula 3)



(Formula 4)



(Formula 5)

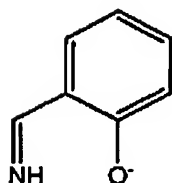


(Formula 6)

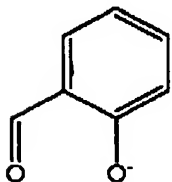
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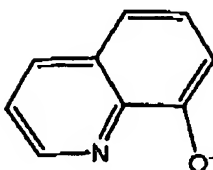
Docket No. 740756-2689  
Application No. 10/736,679  
Page 8 of 13



(Formula 7)



(Formula 8)



(Formula 9).

14. (New) A light emitting device according to claim 11, wherein the light emitting device is incorporated into an electronic device selected from the group consisting of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

15. (New) A light emitting device according to claim 11, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

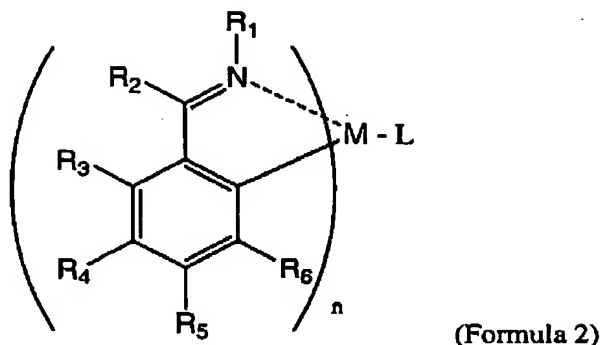
16. (New) A light emitting device according to claim 11, wherein a hole injection layer comprising a low molecular weight is formed adjacent to the light emitting layer.

17. (New) A light emitting device comprising:  
a thin film transistor over a substrate;  
an interlayer insulating film over the thin film transistor;  
a first electrode electrically connected to the thin film transistor, over the interlayer insulating film;  
a light emitting layer comprising an organometallic complex represented by the

W665217.1

Docket No. 740756-2689  
 Application No. 10/736,679  
 Page 9 of 13

following general formula 2, over the first electrode;



a second electrode over the light emitting layer,

wherein  $R_1$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group or a substituted heterocyclic group,

wherein  $R_2$  is an alkyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein each of  $R_3$ ,  $R_4$ ,  $R_5$ , and  $R_6$  is identical with each other or different from each other, and is hydrogen, halogen, an alkyl group, an alkoxyl group, an aryl group, a substituted aryl group, a heterocyclic group, or a substituted heterocyclic group,

wherein M is an element of Group 9 or an element of Group 10,

wherein n is 2 when the M is the element of Group 9 or n is 1 when the M is the element of Group 10, and

wherein L is a monoanionic ligand having a  $\beta$ -diketone structure, a monoanionic bidentate ligand having a carboxyl group, or a monoanionic bidentate ligand having a phenolic hydroxyl group.

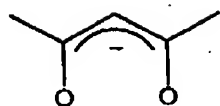
18. (New) The organometallic complex according to claim 17, wherein the M is iridium or platinum.

19. (New) The organometallic complex according to claim 17, wherein the L is any of monoanionic ligands shown by the following structure formulas 3 to 9:

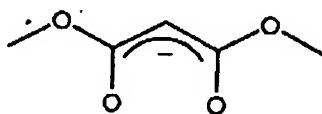
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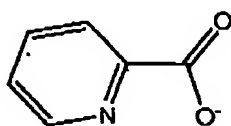
Docket No. 740756-2689  
Application No. 10/736,679  
Page 10 of 13



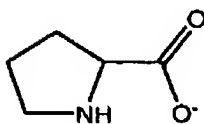
(Formula 3)



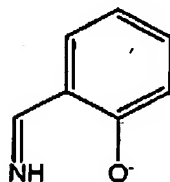
(Formula 4)



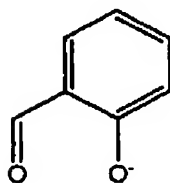
(Formula 5)



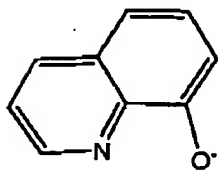
(Formula 6)



(Formula 7)



(Formula 8)



(Formula 9).

20. (New) A light emitting device according to claim 17, wherein the light emitting device is incorporated into an electronic device selected from the group consisting of a video camera, a digital camera, a goggle-type display, a navigation system, a sound reproduction

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Docket No. 740756-2689  
Application No. 10/736,679  
Page 11 of 13

device, a laptop personal computer, a game machine, a mobile computer, a mobile phone, a portable game machine, an electronic book, and an image reproduction device.

21. (New) A light emitting device according to claim 17, wherein a hole injection layer comprising a polymer material is formed adjacent to the light emitting layer.

22. (New) A light emitting device according to claim 17, wherein a hole injection layer comprising a low molecular weight is formed adjacent to the light emitting layer.

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